

### From the INTERNATIONAL BUREAU

	FIGHT (HE INTERNATIONAL BUREAU	
PCT	То:	
NOTIFICATION OF ELECTION	United States Patent and Trademark Office	
(PCT Rule 61.2)	(Box PCT) Crystal Plaza 2	
	Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE	
	217/10 01/10 07/11/202	
Date of mailing: 17 December 1998 (17.12.98)	in its capacity as elected Office	
International application No.: PCT/IB98/00839	Applicant's or agent's file reference: PC9576/76488	
PC1/1B30/00033	F C3370/70400	
International filing date:	Priority date:	
29 May 1998 (29.05.98)	11 June 1997 (11.06.97)	
Applicant: BRONK, Brian, Scott et al		
1. The designated Office is hereby notified of its election made  X in the demand filed with the International preliminary  22 September  in a notice effecting later election filed with the International preliminary  2. The election X was  was not  made before the expiration of 19 months from the priority of Rule 32.2(b).	Examining Authority on: 1998 (22.09.98) ational Bureau on:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

J. Zahra

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)  Date of mailing (day/month/year) 08 March 1999 (08.03.99)	SPIEGEL, Allen, J. c/o Green, Mark, Charles Urquhart-Dykes & Lord 91 Wimpole Street London W1M 8AH ROYAUME-UNI
Applicant's or agent's file reference	IMPORTANT NOTIFICATION
PC9576/76488	
International application No.	International filing date (day/month/year)
PCT/IB98/00839	29 May 1998 (29.05.98)
The following indications appeared on record concerning:      X the applicant     X the inventor	the agent the common representative
Name and Address	State of Nationality State of Residence
	Telephone No.
	Facsimile No.
	Teleprinter No.
2. The International Bureau hereby notifies the applicant that the	
X the person the name the add	
Name and Address	State of Nationality State of Residence CA US
CHENG, Hengmiao 39 Mayfield Terrace	Telephone No.
East Lyme, CT 06333 United States of America	
	Facsimile No.
	Teleprinter No.
3. Further observations, if necessary: The applicant/inventor has been added.	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority	X the elected Offices concerned
X the International Preliminary Examining Authority	other:
	Authorized officer
The International Bureau of WIPO 34, chemin des Colombettes	S. De Michiel
1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38
1 405mme 140 (41:42) /40.14.00	



## PATENT COOPERATION TREATY

**PCT** 

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REC'D 13 JUL 1999	HEC.D	1 3	10r	1333

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

PC9576/7	r agent's file reference 6488	FOR FURTHER ACTION	See Notification of Tra Preliminary Examination	insmittal of International on Report (Form PCT/IPEA/416)
International	application No.	International filing date (day/month/	year) Priority d	ate (day/month/year)
PCT/IB98/00839 29/05/1998 11/06/1997				1997
nternational		national classification and IPC		
Applicant PFIZER F	RODUCTS INC. et al.			
1. This in	ternational preliminary ex	amination report has been prepared nt according to Article 36.	by this International	Preliminary Examining Authority
2. This R	EPORT consists of a tota	of 5 sheets, including this cover sh	neet.	
be (s	en amended and are the	nied by ANNEXES, i.e. sheets of the basis for this report and/or sheets on 607 of the Administrative Instruction of sheets.	ontaining rectification	and/or drawings which have as made before this Authority
3. This r	eport contains indications	relating to the following items:		
3. This re	_	relating to the following items:		
1	⊠ Basis of the report	relating to the following items:		
	<ul><li>☒ Basis of the report</li><li>☐ Priority</li></ul>		rentive step and indu	strial applicability
 	<ul><li>☒ Basis of the report</li><li>☐ Priority</li></ul>	of opinion with regard to novelty, inv	rentive step and indu	strial applicability
1 11 111	<ul> <li>☑ Basis of the report</li> <li>☑ Priority</li> <li>☑ Non-establishment</li> <li>☑ Lack of unity of inventor</li> <li>☒ Reasoned statement</li> </ul>	of opinion with regard to novelty, invention at the ortion to the orticle 35(2) with regard to		
         V	<ul> <li>☑ Basis of the report</li> <li>☑ Priority</li> <li>☑ Non-establishment</li> <li>☑ Lack of unity of inventor</li> <li>☒ Reasoned statement</li> </ul>	of opinion with regard to novelty, invention antion at under Article 35(2) with regard to nations suporting such statement		
         V 	<ul> <li>☒ Basis of the report</li> <li>☐ Priority</li> <li>☐ Non-establishment</li> <li>☐ Lack of unity of inverse citations and explant</li> <li>☐ Certain documents</li> </ul>	of opinion with regard to novelty, invention ant under Article 35(2) with regard to nations suporting such statement cited		
	<ul> <li>☒ Basis of the report</li> <li>☐ Priority</li> <li>☐ Non-establishment</li> <li>☐ Lack of unity of inverse citations and explant</li> <li>☐ Certain documents</li> <li>☐ Certain defects in the</li> </ul>	of opinion with regard to novelty, invention antion at under Article 35(2) with regard to nations suporting such statement		
        V         	<ul> <li>☒ Basis of the report</li> <li>☐ Priority</li> <li>☐ Non-establishment</li> <li>☐ Lack of unity of inverse citations and explant</li> <li>☐ Certain documents</li> <li>☐ Certain defects in the</li> </ul>	of opinion with regard to novelty, invention in under Article 35(2) with regard to nations suporting such statement cited in einternational application is on the international application.		p or industrial applicability;
        V         	Basis of the report Priority Non-establishment Lack of unity of inve Reasoned statemer citations and explar Certain documents Certain defects in th Certain observation	of opinion with regard to novelty, invention in under Article 35(2) with regard to nations suporting such statement cited in einternational application is on the international application.	novelty, inventive ste	p or industrial applicability;
	Basis of the report Priority Non-establishment Lack of unity of inve Reasoned statemer citations and explar Certain documents Certain defects in the Certain observation mission of the demand	of opinion with regard to novelty, invention int under Article 35(2) with regard to nations suporting such statement icited ine international application is on the international application  Date of	novelty, inventive ste	p or industrial applicability;
	Basis of the report Priority Non-establishment Lack of unity of inve Reasoned statemer citations and explar Certain documents Certain defects in th Certain observation	of opinion with regard to novelty, invention int under Article 35(2) with regard to nations suporting such statement icited ine international application is on the international application  Date of  Lional  Authoriz	novelty, inventive ste	p or industrial applicability;

# INTERNATIONAL-PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/IB98/00839

I. Basi	s of the	report
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١.	Bas	is of the report					
1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Of response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexe the report since they do not contain amendments.): Description, pages:					led to the receiving Office i d" and are not annexed to	n	
	1-46	3	as originally fi	led			
	Clai	ims, No.:					
	1-28	3	as originally fi	iled			
2	The	amendments have	resulted in th	e cancell	ation of:		
۷.	1110		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • • • • • • • • • • • • • • • • •		<u>;</u>	
		the description,	pages:				
		the claims,	Nos.: sheets:				
		the drawings,	Sneets.				
3.		This report has be considered to go	een established beyond the dis	d as if (so closure a	ome of) the amendments had not been n as filed (Rule 70.2(c)):	nade, since they have beer	1
4.	Add	ditional observation	s, if necessary	r:			
V	Rea	asoned statement plicability; citation	under Article ns and explan	35(2) w ations s	ith regard to novelty, inventive step oupporting such statement	r industrial	
1.	Sta	itement					
	No	velty (N)	Yes: No:	Claims Claims	1-28		
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-28 (to be settled)		

Claims 1-28

Claims

Yes:

No:

Industrial applicability (IA)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB98/00839

2. Citations and explanations

see separate sheet

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

### V. Reasoned statement

The following documents will be referred to in this report:

D1 = US - A - 5 441 939 D2 = FR - A - 4 512 982

Novelty (Article 33(2) PCT)

No objection in view of the prior art.

### Inventive step (Article 33(3) PCT)

The claims cover a large number of compounds, including such which have known substituents at the 4"-position [= the focus of the modifications according to the title].

The invention therefore consists of different embodiments, which, though novel, may not all be inventive.

One sub-group of the claimed compounds has novel substitutions at the 4"-position; another sub-group has known 4"-substitutions but -NH at position 9a (compare D1).

In the latter case, it does not appear to be unobvious for the skilled man to start from D1 (-NMe) and move towards the substituent (-NH) from D2. He would then be inside the present scope.

The Description suggests assays which can be carried out in order to establish whether a particular compound has a desired activity. However, no test results or any other indication [as to why the claimed compounds should have an advantage over those of the prior art] have been disclosed in the Application.

Considering the broad scope, it is not reasonable that the reader shall perform the bulk of this work.

The inventive step may possibly be found within one or some of the preferred groups, but this has to be settled later; the inventive step for the intermediates of Claims 27-28 will depend on the outcome of the main question.

Since no further information has been submitted by the Applicant, a negative statement has been given in Box V for the inventive step.

### VIII. Certain observations

The reason for the provisos of Claims 1 and 24 should be clarified. In case of additional prior art, further implications may arise concerning the inventive step (and unity) for various definitions of R3/R8.

- -

- 2. Since R2 = -OH, it would be preferable to include -OH in the formulae rather than having this definition in the text [to improve the overview].
- 3.
  The text of Claim 24 could be considerably reduced by making use of claim dependency; i.e. the repeated definitions on pages 51-52 are not necessary.
- 4. The unit psi, which is repeatedly used in the Examples, is no SI-unit.

Finally,

Claim 23 refers to a method for treatment and is therefore not acceptable under all national/regional regulations.

In case of a later Euopean phase, the claim should be redrafted with a view to the Guidelines, C-IV, 4.2.

## **PATENT COOPERATION TREATY**

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC9576/76488		n of Transmittal of International Search Report V220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/ IB 98/ 00839	29/05/1998	11/06/1997
	27/05/2770	
Applicant		
	_	
PFIZER PRODUCTS INC. et a	l	
1		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching At ansmitted to the International Bureau.	uthority and is transmitted to the applicant
Tile International Search Report consists	of a total of 3 sheets.	
This International Search Report consists  X It is also accompanied by a cop	or a total orsneets.  y of each prior art document cited in this repo	art
A it is also determined by a sup-	, of buon prior at accumum and a	
1. Y Certain claims were found un	searchable (see Box I).	
, M. 23	•	
2. Unity of Invention is lacking (s	see Box II).	
		to a self account that and the
	ntains disclosure of a <b>nucleotide and/or am</b> illout on the basis of the sequence listing	ino acid sequence listing and the
	d with the international application.	
	ished by the applicant separately from the in	ternational application.
	but not accompanied by a statement to	
· '	matter going beyond the disclosure in the	
Tra	nscribed by this Authority	
	· · · · · · · · · · · · · · · · · · ·	
	text is approved as submitted by the applicar	
the L	text has been established by this Authority to	read as follows:
5. With regard to the abstract,		
	text is approved as submitted by the applicant	
	text has been established, according to Rule III. The applicant may, within one month from	
	arch Report, submit comments to this Authori	
1		
6. The figure of the drawings to be publ		□ N (4.1) (5
	suggested by the applicant.	None of the figures.
	ause the applicant failed to suggest a figure.	
Ŭ bed	ause this figure better characterizes the inve	ntion.



International application No. PCT/IB 98/00839

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claim 23 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.	<u>:</u>
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	



International Application No. PCT/IB 98/00839

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C07H17/08 A61K31/70						
According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED  comentation searched (classification system followed by classification	on symbols)				
IPC 6	C07H A61K`					
Documenta	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic d	lata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.			
Υ	US 5 441 939 A (YANG BINGWEI V ET August 1995 see the whole document	Γ AL) 15	1-28			
Y	US 4 512 982 A (HAUSKE JAMES R E April 1985 see column 2	ET AL) 23	1-28			
Y	EP 0 508 699 A (MERCK & CO INC) 1 1992 see claims 1-33	l4 October	1-28			
A	EP 0 549 040 A (MERCK & CO INC) 3 1993 see claims 1,2	30 June	1,22-24, 28			
Furt	her documents are listed in the continuation of box C.	X Patent family members are listed i	n annex.			
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document; some combination being obvious to a person skilled</li> </ul>						
	ent published prior to the international filing date but han the priority date claimed	in the art. "&" document member of the same patent	family			
Date of the	actual completion of the international search	Date of mailing of the international sea	·			
2	3 June 1998		07. 1998			
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Scott, J				

1

## IN RNATIONAL SEARCH REPORT

information on patent family members

nternational Application No PCT/IB 98/00839

Patent document cited in search report		Publication date	Patent fa membe		Publication date
US 5441939	A	15-08-1995	EP 07 FI 9 WO 95	84734 A 48329 A 51003 A 23808 A 11498 T	08-09-1995 18-12-1996 05-09-1995 08-09-1995 18-11-1997
US 4512982	A	23-04-1985	AU 5 AU 41 CA 12 DE 35 DK 1 EG EP 01 FI 8 JP 602 PT	49235 B 07085 A 34805 A 65267 A 64785 A 17459 A 59856 A 51449 A 31691 A 80270 B	23-01-1986 17-10-1985 05-04-1988 03-11-1988 10-12-1985 30-12-1992 30-10-1985 14-10-1985 18-11-1985 20-10-1987
EP 0508699	Α	14-10-1992	AT 1 CA 20 DE 692 DK 5 ES 21 JP 25	64165 T 64165 T 64634 A 224765 D 608699 T .13410 T 603156 B 255375 A	21-05-1985 
EP 0549040	Α	30-06-1993	JP 52	083762 A 055374 A 092434 B	21-06-1993 05-10-1993 16-11-1994



# WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup>: C07H 17/08, A61K 31/70

**A1** 

(11) International Publication Number:

WO 98/56802

(43) International Publication Date:

17 December 1998 (17.12.98)

(21) International Application Number:

PCT/IB98/00839

(22) International Filing Date:

29 May 1998 (29.05.98)

(30) Priority Data:

60/049,348

11 June 1997 (11.06.97)

US

(71) Applicant (for all designated States except US): PFIZER PRODUCTS INC. [US/US]; Eastern Point Road, Groton, CT 06340 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): BRONK, Brian, Scott [US/US]; 66 Partridge Hollow Road, Gales Ferry, CT 06355 (US). LETAVIC, Michael, Anthony [US/US]; 334 High Street, Mystic, CT 06355 (US). KANEKO, Takushi [JP/US]; 398 Northwood Drive, Guilford, CT 06437 (US). YANG, Bingwei, Vera [US/US]; 27 Lincoln Road, Waterford, CT 06385 (US). GLAZER, Edward, Alan [US/US]; Unit 77, 310 Boston Post Road, Waterford, CT 06385 (US).
- (74) Agents: SPIEGEL, Allen, J.; c/o Green, Mark, Charles, Urquhart-Dykes & Lord, 91 Wimpole Street, London W1M 8AH (GB) et al.

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

#### **Published**

With international search report.

(54) Title: 4"-SUBSTITUTED-9-DEOXO-9A-AZA-9A-HOMOERYTHROMYCIN A DERIVATIVES

#### (57) Abstract

The invention relates to compounds of formula (1) and to pharmaceutically acceptable salts thereof. The compounds of formula (1) are antibacterial agents that may be used to treat various bacterial and protozoa infections. The invention also relates to pharmaceutical compositions containing the compounds of formula (1) and to methods of treating bacterial protozoa infections by administering the compounds of formula (1). The invention also relates to methods of preparing the compounds of formula (1) and to intermediates useful in such preparation.

# INTERNATIONAL SEARCH REPORT

Inten anal Application No PC./IB 98/00839

4 01 4001	FIGATION OF OUR IFOT MATTER		
IPC 6	FICATION OF SUBJECT MATTER C07H17/08 A61K31/70		
			-
According to	International Patent Classification (IPC) or to both national classificati	on and IPC	
	SEARCHED		
Minimum do IPC 6	cumentation searched (classification system followed by classification CO7H A61K	symbols)	
Documentat	ion searched other than minimum documentation to the extent that suc	oh documents are included in the fields sea	rched
Electronic da	ata base consulted during the international search (name of data base	and, where practical, search terms used)	
C DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relev	rant passages	Relevant to claim No.
Υ	US 5 441 939 A (YANG BINGWEI V ET	AL) 15	1-28
	August 1995	,	
	see the whole document		
Υ	US 4 512 982 A (HAUSKE JAMES R E	T AL) 23	1-28
	April 1985		
	see column 2		
Υ	EP 0 508 699 A (MERCK & CO INC) 1	4 October	1-28
	1992		
	see claims 1-33		
Α	EP 0 549 040 A (MERCK & CO INC) 3	0 June	1,22-24,
1	1993		28
	see claims 1,2		
1			
		[V] 5	
L Fun	her documents are listed in the continuation of box C.	Patent family members are listed i	n annex.
° Special ca	tegories of cited documents :	T later document published after the inter	
*A" docume	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	
"E" earlier of	document but published on or after the international date	"X" document of particular relevance; the c cannot be considered novel or cannot	
	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive step when the do  "Y" document of particular relevance; the o	cument is taken alone
citatio	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an im- document is combined with one or mo	ventive step when the
other	means ent published prior to the international filing date but	ments, such combination being obvior in the art.	
later t		*&* document member of the same patent	family
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report
2	3 June 1998	17. 07	1998
	mailing address of the ISA	Authorized officer	
, viame and	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Audionzed dilicer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Scott, J	



national application No. PCT/IB 98/00839

Box i	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claim 23 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Int	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Rema	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

RT T

nter nal Application No PC r/IB 98/00839

.iformation on patent family members

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5441939 A	15-08-1995	CA 2184734 A EP 0748329 A FI 951003 A WO 9523808 A JP 9511498 T	08-09-1995 18-12-1996 05-09-1995 08-09-1995 18-11-1997
US 4512982 A	23-04-1985	AU 549235 B AU 4107085 A CA 1234805 A DE 3565267 A DK 164785 A EG 17459 A EP 0159856 A FI 851449 A JP 60231691 A PT 80270 B US 4518590 A	23-01-1986 17-10-1985 05-04-1988 03-11-1988 10-12-1985 30-12-1992 30-10-1985 14-10-1985 18-11-1985 20-10-1987 21-05-1985
EP 0508699 A	14-10-1992	AT 164165 T CA 2064634 A DE 69224765 D DK 508699 T ES 2113410 T JP 2503156 B JP 5255375 A	15-04-1998 05-10-1992 23-04-1998 04-05-1998 01-05-1998 05-06-1996 05-10-1993
EP 0549040 A	30-06-1993	CA 2083762 A JP 5255374 A JP 6092434 B	21-06-1993 05-10-1993 16-11-1994